

HOUGH INHIBITOR 3344

Product Information



Chemical and Physical Characteristics

Composition:	A combination of a hexahydrotriazine and a pyridinethiol derivative
Appearance:	Clear yellow liquid
Odour:	Characteristic
Refractive Index (20°C):	1.4590 - 1.4650
Density (20°C):	1.138 - 1.148 g/ml
Amine Value:	460 - 520 mg/g
Colour (Gardner):	max. 10
Sodium Pyrione Content:	2.90 - 3.50%
Solubility:	Fully soluble in water and most lower alcohols and glycols
Stability in application*:	Stable at pH values between 7 and 11 and at up to 80°C

Note: *These characteristics do not constitute a sales specification*

Biocidal Properties

HOUGH INHIBITOR 3344 has a broad spectrum of anti-microbial activity, including efficacy against the following organisms.

Test Organisms		
Bacteria	Moulds	Yeasts
<i>Achromobacter sp.</i>	<i>Aspergillus sp.</i>	<i>Candida albicans</i>
<i>Aeromonas sp.</i>	<i>Cephalosporium sp.</i>	<i>Rhodotorula sp.</i>
<i>Alcaligenes sp.</i>	<i>Cladosporium sp.</i>	<i>Saccharomyces cerevisiae</i>
<i>Bacillus sp.</i>	<i>Fusarium sp.</i>	
<i>Escherichia coli</i>	<i>Paecilomyces variotii</i>	
<i>Flavobacterium sp.</i>	<i>Penicillium funiculosum</i>	
<i>Klebsiella sp.</i>		
<i>Proteus sp.</i>		
<i>Pseudomonas sp.</i>		
<i>Streptomyces sp.</i>		

Applications / Use Levels

HOUGH INHIBITOR 3344 is particularly suitable for the preservation of metalworking fluids and other alkaline formulations. It may be used in anionic detergents, starch slurries prior to drum drying, as a sterilising wash during industrial plant cleaning, in mixing vessel and storage tank humidifier/spray systems, for water treatment and in other similar applications.

Normal use concentrations are in the range 0.05 - 0.30%, depending on the product to be protected and the environmental conditions to which it will be exposed.

Addition / Compatibility

HOUGH INHIBITOR 3344 can be added at any stage during the production process, but it is recommended that for readily susceptible products it be added as early as possible during the manufacturing cycle.

HOUGH INHIBITOR 3344 is compatible with most products in which its use is recommended but it may cause colour changes when in contact with heavy metal ions. Users are advised to conduct their own tests or seek further advice from **Thor** prior to initial application.

Packaging / Storage / Regulatory Approvals

Packaging:	Plastic container: 5L
Shelf Life:	18 months from production date
Availability:	Ex stock in the above packaging
Storage:	It is preferable to handle the product in a closed system. Keep containers tightly sealed. Protect against temperatures >80°C.
Regulatory Approvals:	Detailed information available in the regulatory status document

Safety / Labelling / Toxicology

For detailed information on the toxicology and handling of **HOUGH INHIBITOR 3344** and advice on the labelling of products in which it may be used, please refer to the separate Safety Data Sheet or seek specific advice from **PPS Industries Ltd.**

The data given are time and system dependent.

The information contained in this leaflet is intended to be of assistance to users but is without guarantee. Variations can occur in application and users are advised to conduct their own tests. Suggestions for use neither

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